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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/673,871	10/20/2000	Alexandre Marti	NITROS P146US	6986
75	90 12/05/2002			
Davis and Bujold Fourth Floor 500 North Commercial Street Manchester, NH 03101			EXAMINER	
			SHARAREH, SHAHNAM J	
			ART UNIT	PAPER NUMBER
			1617	
			DATE MAILED: 12/05/2002	15

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner		Application No.	Applicant(s)				
Examiner Shahnam Sharareh 1617 Shahnam Sharareh Shannam Sharareh Shannam Sharareh 1617 Shahnam Sharareh Shannam Shannam Sharareh Shannam Sharareh Shannam Sharareh Shannam Sharareh 1617 Shannam Sharareh Shannam Shannam Shannam Sharareh Shannam Shannam Shannam Sharareh Shannam Sharareh Shannam Sharareh Shannam	•	09/673.871	MARTI ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extending or the map be available under the proxima of 3 C PR 1.15(a), in or event, however, may a reply be linely filed after SX (6) MONTH'S from the realing date of the communication of the TX (1) in the proximal of the communication of the TX (1) in the proximal of the transport of the TX (1) in the proximal of the TX (1) in the proximal of the TX (1) in the proximal of the TX (1) in the transport of the TX (1) in	Office Action Summary		Art Unit				
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Attachment(s) 1) Notice of References Cited (RTO 202)		∆ □	Summer (BTO 442) Bease Ne(c)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of					

Art Unit: 1617

DETAILED ACTION

Amendment filed on October 02, 2002 has been entered. Claims 19-35 are pending. Any rejection that is not addressed in this Office Action is considered obviated in view of the amendments.

Applicant's arguments filed October 02, 2002 have been fully considered but they are not persuasive for the reasons set forth below.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

1. Claims 19-23, 25-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Gierskoky et al WO 96/28412 ('412).

Applicant argues that the solution disclosed in '412 is for prepration in the sense of synthesis not administration and that the instant claims are directed to solutions for therapeutic or diagnostic purposes. (see Response p.5).

In response, and as explicitly stated in the previous Office Action, the instant claims are directed to solutions comprising ester of 5-aminolevulinic acid at concentrations lower than 1%, not pharmaceutical nor diagnostic compositions. Intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. (see page 4 of Paper No. 8).

Further, Examiner states that the instant claims 29-35 appear to be drafted as "product by process" claims. Accordingly, product by process claims are not limited to

Art Unit: 1617

the manipulations of the recited steps, only the structure implied by the steps (see MPEP 2113.) "Even though product - by process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product - by - process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." *In re Thorpe*, 227 USPQ 964, 966 (Fed. Cir. 1985).

WO '412 disclose solutions containing 5-aminolevulinic acid (ALA) esters in concentrations lower than 1% wt (see examples 1-3). Example 1 utilizes 1 g of ALA in 200 ml of methanol leading to a 0.5% wt solution. WO '412 also disclose the use of chelators such as EDTA, or deferoxamine etc.. in the final preparation to reduce toxicity associated with therapeutic use of ALA (see page 13, 25). There is no elemental difference between the limitations of the instant claims and the solutions disclosed in WO '412, thus, WO patent anticipates all the limitations of the instant claims regardless of the intended use.

2. Claims 19-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO '412 in view of Chang et al (Journal of Photochemistry and Photobiology 1997;28 (2-3): 114-22).

Applicant argues that WO '412 are not directed to solutions for the claimed use. Further, Applicant states that Chang's solutions are not directed to esters of ALA.

First, in response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the

Art Unit: 1617

rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). In the instant case, the rejection is based on the combined teachings of the references not their individual features.

Accordingly, as recognized by the Applicant's the only difference between WO and the instant claims are in the claimed explicit recitation of the intended use. Such shortcoming is alleviated in view of Chang's teaching. Chang discloses the use of therapeutic formulations of ALA having lower concentrations of about 1%. Further, Applicant's arguments that Chang does not specifically recite the therapeutic use of ALA-esters is not persuasive, because further the instant claims are not absolute to such characteristic. The instant claims are directed to solutions of ALA-esters. Contrary to Applicant's assertion that there is a significant structural difference between ALA and its esters, Examiner replies that it has long been established in the art that esters disassociate in an aqueous solution and exist in equilibrium with their elemental moieties. (see Basic Chemistry Worth Publisher, Inc. p.420, table 17-3).

Furthermore, as explained in the references 2 and 8 submitted along with the amendment, Paper no. 10, the therapeutic use Ala-Esters has long been established (see reference 2, Lange et al, at page 185, last para. And reference 8, Cases et al, page 1794, 2nd col, line 10-14). Thus, application of ALA-esters for diagnostic or therapeutic use has been well known to one of ordinary skill in the art. Subsequently, absence of showing a unexpected results, it would have been obvious to one of ordinary skill in the art at the time of invention to use the solution of ALA esters taught in

Art Unit: 1617

WO '412 at lower concentration or suitable pH by routine optimization, because as suggested by Change, lower concentrations of ALA are effective as photosensitizers for photodynamic therapy. Therefore, there would have been expectation of success in using the solutions of WO '412 at lower concentration for phototherapy.

Finally, in response to commercial utility of the instant claims, Examiner responds that such arguments do not address the patentablity of the subject matter claimed.

Accordingly, the rejection is proper.

3. Claim 23 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 23 recites the limitation "the solvent" in 1. There is insufficient antecedent basis for this limitation in the claim.

Conclusion

No claims are allowed. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Application/Control Number: 09/673,871 Page 6

Art Unit: 1617

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahnam Sharareh whose telephone number is 703-306-5400. The examiner can normally be reached on 8:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan, PhD can be reached on 703-308-1877. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1123.

ss December 2, 2002 RUSSELL TRAVERS PRIMARY EXAMINER GROUP 1200